

1 1. (Amended) An interface block that provides an interface between
2 an internal bus and a socket of a logic block, the interface block, the internal
3 bus and the logic block all being located within a single integrated circuit,
4 the interface block comprising:
5 a synchronization module that performs any needed synchronization
6 between a clock domain of the internal bus and a clock domain of the socket
7 of the logic block;
8 a translation module that, for data transferred between the internal
9 bus and the socket of the logic block, provides translation of block encoding of
10 the data;
11 a queue module, that buffers data flowing between the internal bus
12 and the socket of the logic block; and,
13 a driver module that handles low level and electrical drive
14 specifications of the internal bus.

1 7. (Amended) On an integrated circuit, an interface block that
2 provides an interface between an internal bus of the integrated circuit and
3 a socket of a logic block, the interface block comprising:
4 a plurality of modules connected in series, wherein each module in
5 the plurality of modules performs only a single function from a plurality
6 of functions;
7 wherein any needed synchronization between a clock domain of the
8 internal bus and a clock domain of the socket of the logic block is a first
9 function from the plurality of functions, any required translation of block
10 encoding of data is a second function from the plurality of functions, any

- 11 buffering of data flowing between the internal bus and the socket of the
- 12 logic block is a third function from the plurality of functions, and
- 13 handling any low level and electrical drive specifications of the internal
- 14 bus is a fourth function from the plurality of functions .